

Think global, act local

Building a sustainable and inclusive system for scholarly communication



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COAR is an international association that brings together individual repositories and repository networks in order to build capacity, align policies and practices, and act as a global voice for the repository community.

- Office is based in Germany / Portugal
- Over 150 members and partners
- All 5 continents
- www.coar-repositories.org



Research is global



At the Heart of Global Research
and Education Networking



Many of the worlds most critical challenges must be addressed globally



Climate change: “Between 2008 and 2014, more than 25 million people per year were uprooted because of rapid-onset disasters such as floods and storms.” (International Displacement Monitoring Center)

...But research is also local



e.g. Nepal

Nepalese research outputs - with Major Clusters

Number of publications: 3,011

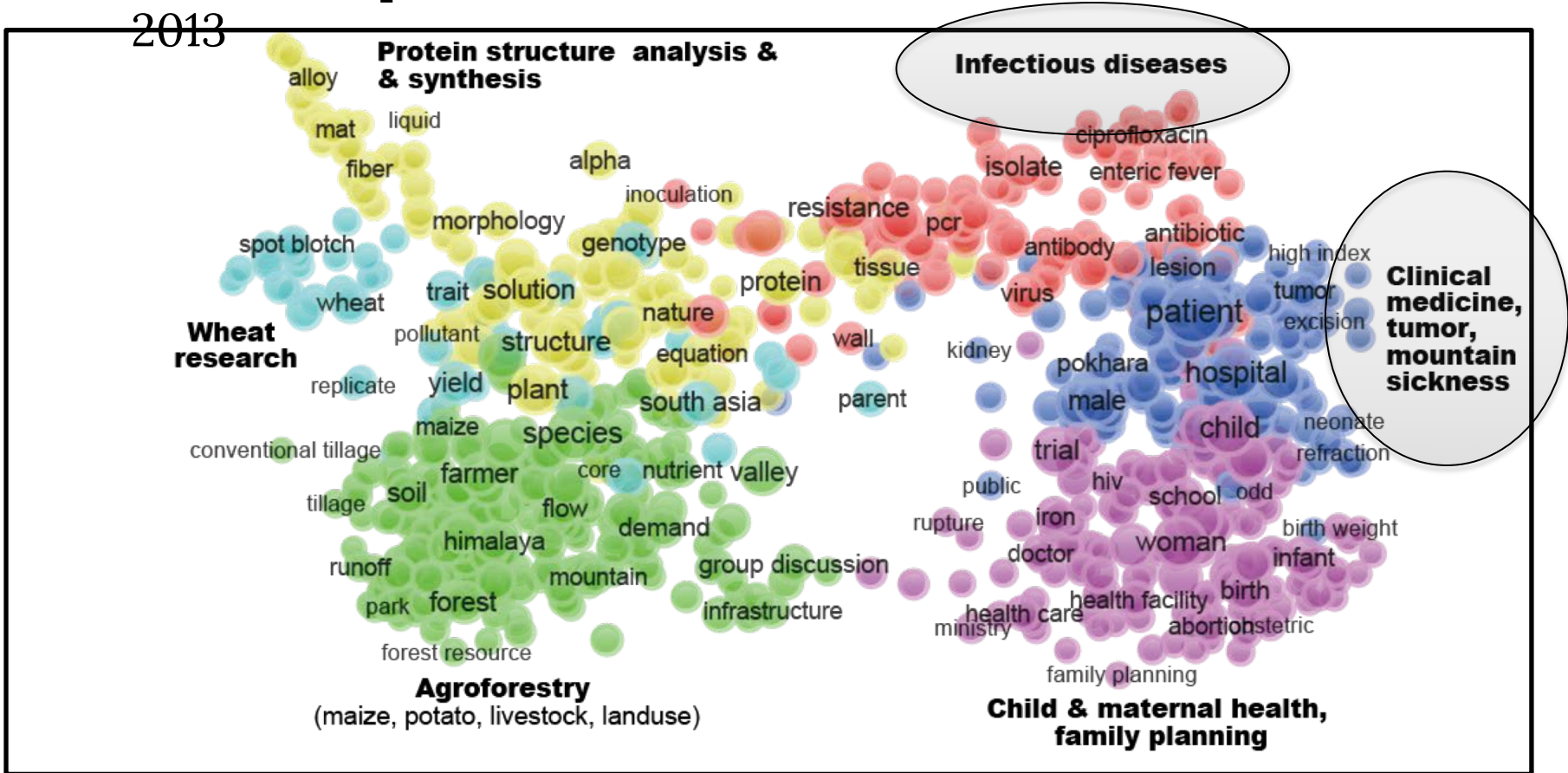
Years: 2004-

Image produced by Pitambar Gautam, Hokkaido University, Sapporo, Japan
Word maps created using VosViewer, a free software (Leiden University) , Vaby Eck & Waltman (2010)

e.g. Chagas Disease

 OPEN ACCESS

VIEWPOINTS

Ten years of Chagas disease research: Looking back to achievements, looking ahead to challenges

Eric Dumonteil , Claudia Herrera

Published: April 20, 2017 • <https://doi.org/10.1371/journal.pntd.0005422>

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“Neglected tropical diseases affect more than 1 billion people, primarily poor populations living in tropical and subtropical climates... More than 70% of countries and territories that report the presence of neglected tropical diseases are low-income or lower middle-income economies.”

Canadian Journal Of Native Studies

The *Canadian Journal of Native Studies* is a highly recognized journal in the field of Native Studies. It began as a publication of the Society for the Advancement of Native Studies which is no longer in operation and whose founder; Sam Corrigan; was the Chief Editor from 1981-2008. It comes out on a bi-annual basis, and publishes original research which is refereed by peer review.



As a general focus, the journal publishes anthropological, historical, sociological, political, legal, education and cultural issues affecting First Nations people. Although the majority of articles deal with Indigenous peoples in Canada, it also publishes articles dealing with Indigenous peoples world-wide.



The scholarly communication is extremely unbalanced!

The Rise of Big Publishers in Development and What is at Stake: A Development Perspective

By: *Denisse Albornoz*, Research Associate at [OCSDNet](#)

This assumption also denies the lack of diversity in international research. When researchers gain access to the international scientific journals, they are not gaining access to a repository of knowledge that is representative of the plurality and diversity of knowledge and science produced around the world. Rather, they are dealt with articles that **do not include Global South perspectives, giving more visibility and thus legitimacy to knowledge from the Global North**. This again reaffirms the idea that the Western-centric mode of producing science is the model local research needs to follow in order to reach its potential, a rationale that has strong cultural and social implications for what researchers and the general public understand as valid and legitimate knowledge.

Can open access / open science address the problem of inequity?



TODAY'S SCHOLARLY JOURNALS OPEN, RE-USABLE, SUSTAINABLE

VISION

OA2020 is a global alliance committed to **accelerating the transition to open access**.

MISSION

We collaborate to transform the current publishing system, **replacing the subscription business model** with new models that ensure outputs are **open and re-usable** and that the costs behind their dissemination are transparent and **economically sustainable**.



Costs of Article Processing Charges



Figure 9: Average APC

Jisc 2016: Average APC cost was about £1745 (~\$2400 US)

Elsevier's profits swell to more than £900 million

But 'risks' of open access and a shift away from subscription model could halt growth, publisher's financial results reveal

February 20, 2018



By [David Matthews](#)

Twitter: [@DavidMJourn](#)

> 1.2 billion US



Is neoliberalism destroying the world?

scholarly communications



CBC Radio · Posted: Sep 26, 2018 3:48 PM ET | Last Updated: August 30





Research assessment based on “high impact factor” journals



<http://www.shanghairanking.com/>

ARWU is an influential ranking list of world universities compiled by Shanghai Jiao Tong University (SJTU).

Each year, the top 500 universities in the world are ranked based on a set of criteria:

Criteria	Indicator	Weight
Quality of Education	Alumni of an institution winning Nobel Prizes and Fields Medals	10%
Quality of Faculty	Staff of an institution winning Nobel Prizes and Fields Medals	20%
	Highly cited researchers in 21 broad subject categories	20%
	Papers published in Nature and Science (not for institutions specialized in humanities and social sciences)	20%
Research Output	Papers indexed in Science Citation Index-expanded and Social Science Citation Index	20%
Per Capita Performance	Per capita academic performance of an institution	10%
Total	-	100%

From ARWU website: <http://www.shanghairanking.com/ARWU-Methodology-2017.html>

[home](#) > [science](#)

Peer review and scientific publishing

Nobel winner declares boycott of top science journals

Randy Schekman says his lab will no longer send papers to Nature, Cell and Science as they distort scientific process

Ian Sample, science correspondent

[@iansample](#)

Monday 9 December 2013 19.42 GMT



Advertisement



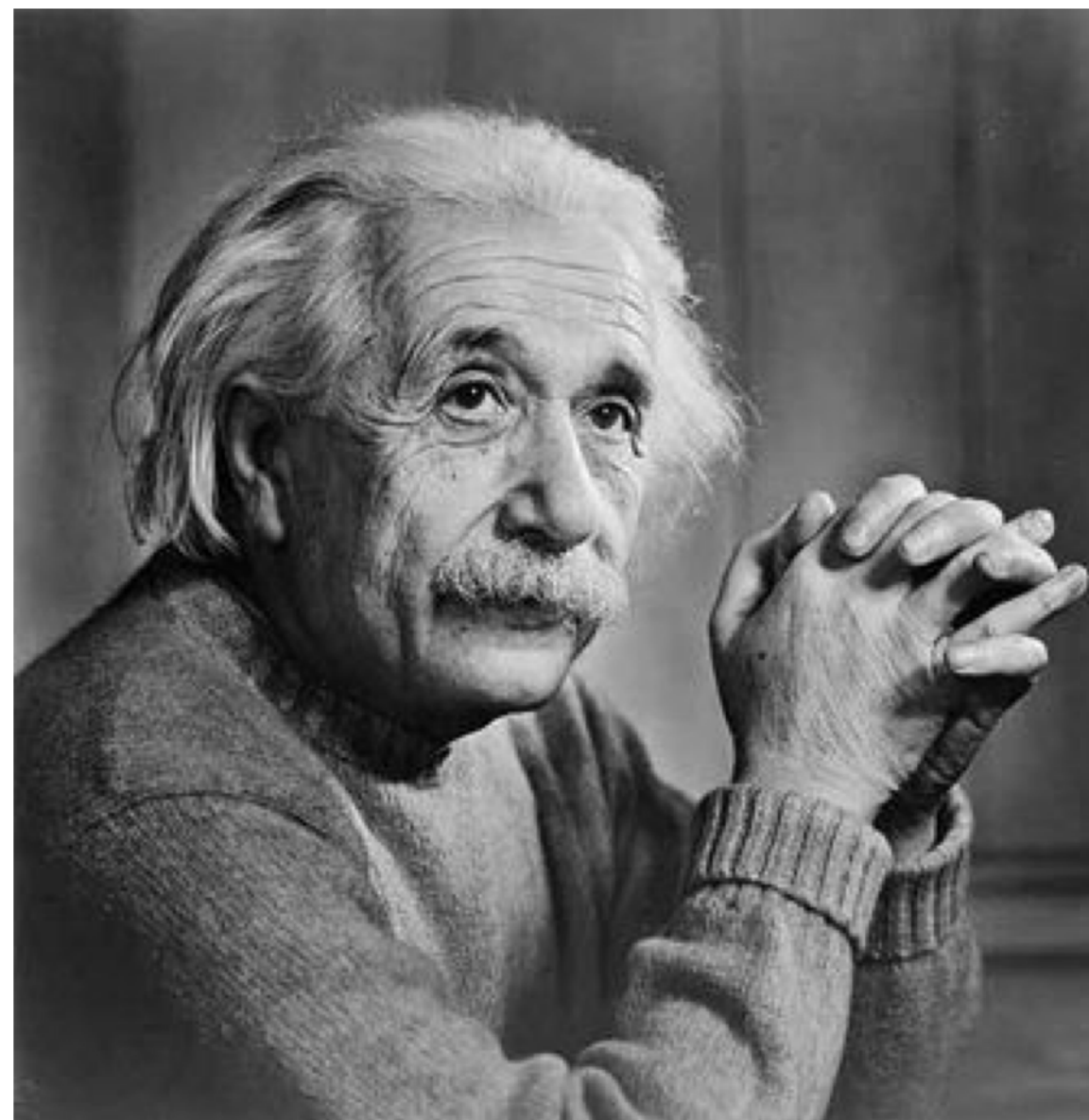
“The pressure to publish in "luxury" journals encourages researchers to cut corners and pursue trendy fields of science instead of doing more important work.”

(Randy Schekman, University of California, Berkeley)

Education, research, and knowledge are critical for sustainable development



But our system for sharing and disseminating knowledge must also be sustainable



“You cannot solve a problem from the same consciousness that created it. You must learn to see the world anew.”



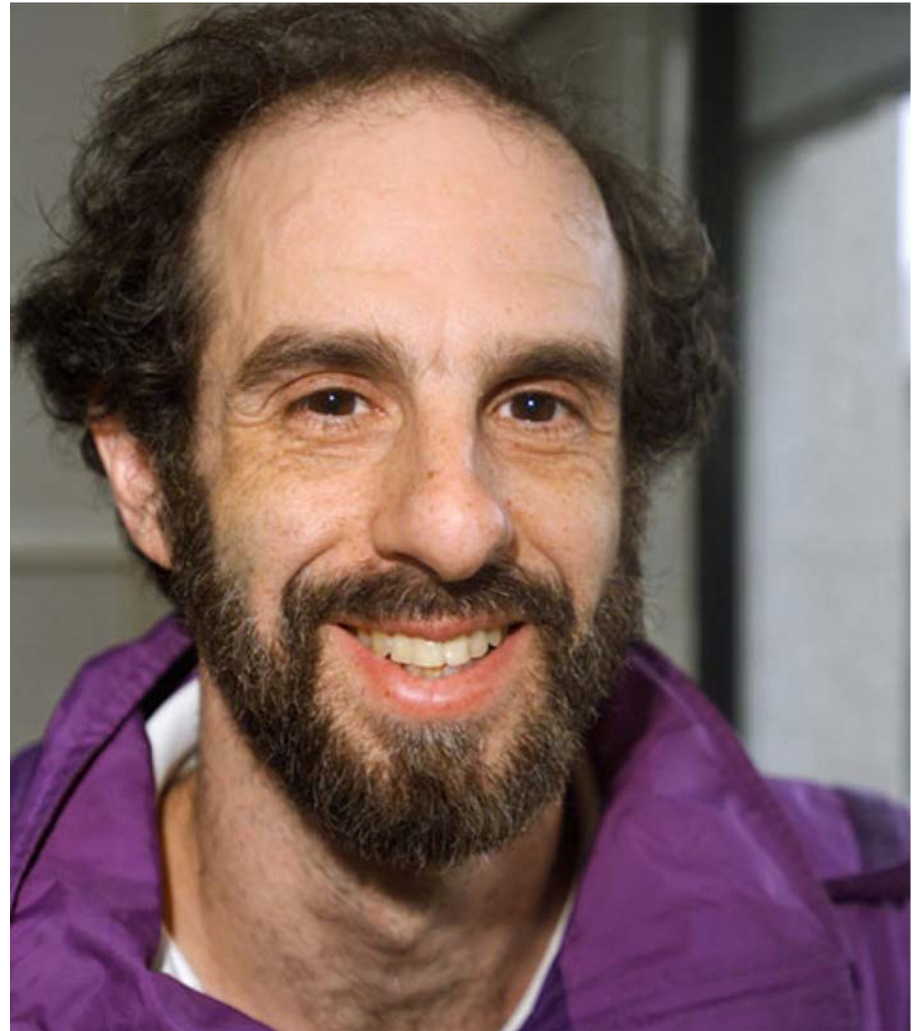
Our Vision

Build a global knowledge commons

“...position repositories as the foundation for a distributed, globally networked infrastructure for scholarly communication, on top of which layers of value added services will be deployed, thereby transforming the system, making it more research-centric, open to and supportive of innovation, while also collectively managed by the scholarly community.”

Not exactly a new vision...

“a relatively complete raw archive unfettered by any unnecessary delays in availability”, on top of which “[a]ny type of information could be overlaid ... and maintained by any third parties”, including tools for validation, filtering and communication
(Ginsparg, 1994)



This means unbundling the scholarly journal

5 functions of scholarly publishing:

1. Registration
2. Certification
3. Awareness
4. Archiving
5. Rewarding



Why do all of these functions have to be centralized?

Addresses three critical issues

Institutions provide
stable funding and
long term access to
content

Research
communities provide
peer review and
networking



Libraries as an Open Global Platform

"... The MIT Libraries must operate as an **open, trusted, durable, interdisciplinary, interoperable content platform** that provides a foundation for the entire life cycle of information for collaborative global research and education."

Overlay journals

“The editors of an overlay journal locate suitable material from open access repositories and public domain sources, read it, and evaluate its worth. This evaluation may take the form of the judgement of a single editor or editors, or a full peer review process.” (Wikipedia: “[Overlay Journal](#)”, accessed Oct 2019)

- Built on arXiv
- No charges for readers or authors
- Authors submit articles

Discrete Analysis

ISSN 2397-3429

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EXTREMAL COMBINATORICS

October 27, 2017

Set Reconstruction on the Hypercube

Luke Pebody

An exact bound is obtained for the reconstruction number of subsets of the n -dimensional vector space over the field of order 2.

Editorial introduction

Recent blog posts



Some other new high-quality journals with no charges for



Advances in Combinatorics

ISSN

For Authors Editorial Board About

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MATROID THEORY

October 30, 2019

The structure of binary matroids with no induced claw or Fano plane restriction

Martine Bonamy, František Kardoš, Tom Kelly, Peter Nelson, Luke Postle

Matroid analogues of graph theory results on the interplay of the chromatic number and forbidding graphs as induced subgraphs are proven.

Editorial introduction

Advances in Combinatorics - Estimated Costs

Expense	CAD	USD	Euro
Scholastica subscription	\$1597.42	\$1188.00	€1060.19
Scholastica author submission fees	\$336.18	\$250.00	€223.13
Domain name	\$11.00	\$8.18	€7.30
In-kind staff	\$1073.8	\$798.8	€712.8
Total	\$3018.4	\$2244.98	€2003.42

This is the same price (or less) than 1 APC article

Pubfair

A distributed framework for open publishing services

Version 2, November 27, 2019

By Tony Ross-Hellauer, Benedikt Fecher, Kathleen Shearer, and Eloy Rodrigues

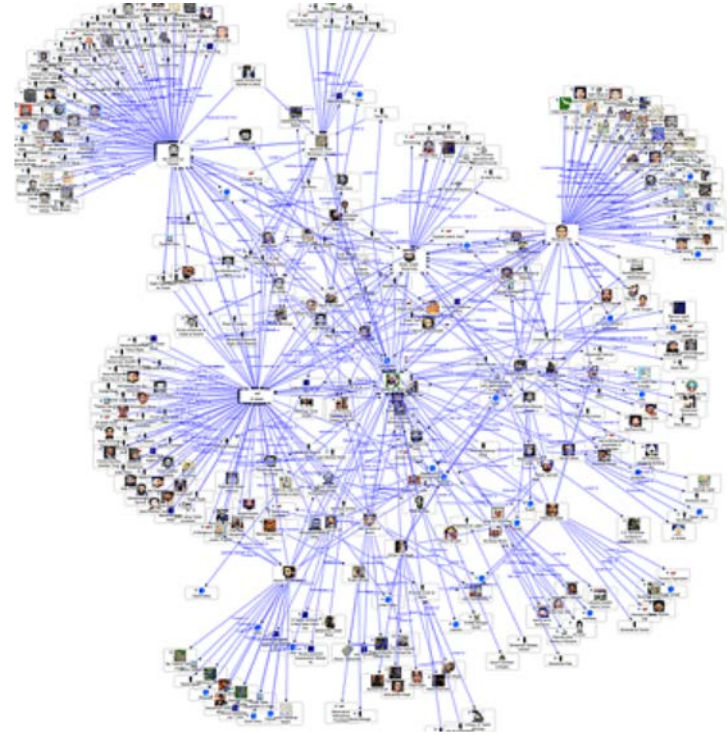
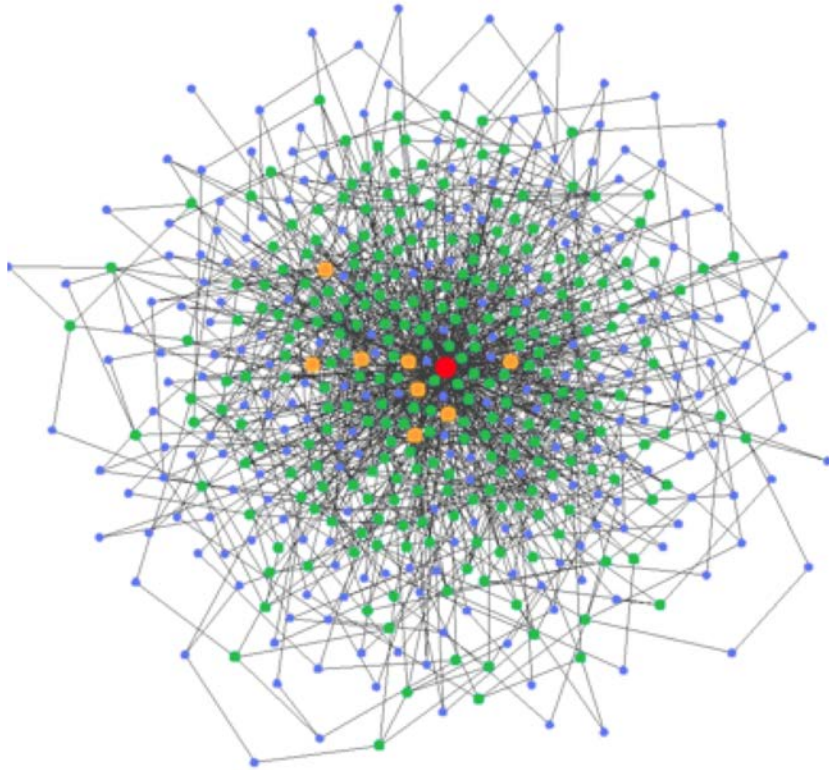


Next generation repositories



To participate in this system, repositories need to adopt common technologies, standards and behaviours

We want networks, but the right kind of networks...



What is different from Paul Ginsparg's original 1994 vision?

This is not about,

- A single platform, server, or repository
- Building a centralized service
- Supporting a single domain or discipline

This is about,

- Connecting Individual “resources” in a highly distributed environment
- Ensuring Interoperability (through common vocabularies, protocols and standards)
- Supporting a variety of community-defined peer review and assessment processes

This “system” is flexible and can scale:
geographically, different content types,
across disciplines, different languages...



A woman with long blonde hair, wearing a teal dress, is running through tall, dry grass. She is holding a large, open umbrella with rainbow-colored segments. The background is a clear blue sky. The text "Jussieu Call for Open science and bibliodiversity" is overlaid on the image in white, sans-serif font.

Jussieu Call for Open science and bibliodiversity

At COAR we recognize and celebrate the diversity of our community. At the same time, we understand that diversity cannot thrive unless it is fostered in an intentional way, through strong coordination.

Beyond Open Access

Five Prerequisites for a Sustainable Knowledge Commons

Open access is about the democratisation of knowledge. However, as open access becomes widely adopted, there is a risk that we will accentuate the inequalities and unsustainability of scholarly publishing, through wide spread implementation of pay to publish business models.

Strengthen local institutions-based services that preserve and provide access to diverse and valuable research products

01

Begin to redistribute funds towards services that add value to the networks, such as peer review

03

Adopt the principles and governance that will ensure the commons reflects the needs of the global research community

05

02

Connect the local services to national, regional and global networks through the adoption of interoperable standards and practices

04

Improve the processes used to evaluate research contributions to include a wider range of qualitative and quantitative metrics and indicators

BUILDING A GLOBAL KNOWLEDGE COMMONS



We recognize the need to go beyond open access, to create an open and fair system for sharing research outcomes. Our

GRACIAS
ARIGATO
SHUKURIA
JUSPAXAR
DANKSCHEEN
TASHAKKUR ATU
YAQHANYELAY
SUKSAMA
EKHMET
TINGKI
BIYAN
SHUKRIA
THANK
YOU
BOLZİN
MERCI
GOZAIMASHITA
EFCHARISTO
KOMAPSUMNIDA
MAAKE
GRAZIE
MEHRBANI
PALDIES
MINMONCHAR
MAKETAI
SIKOMO
UNALCHEESH
HUI
YUSPAGABATAM
CHALTU
NUHUN
SNACHALHUYA
SPASSIBO
WABEEJA
MAITEKA
ATTO
SHANYABAD
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DENKAUJA
HEHACHALHYA
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Ngiyabonga